

SAFETY DATA SHEET
Pro Catalyst Liquid



Version: 2.0
Revision Date: 10/30/2015

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1. Identification

1.1. Product identifier

Trade name Pro Catalyst Liquid
Chemical Name Benzoyl Peroxide/Ester/Water Emulsion

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified Curing agent (polymer technology)
 polymerization initiator
 Pharmaceuticals

1.3. Details of the supplier of the safety data sheet

Company Siplast
 1111 Highway 67 South
 Arkadelphia, AR 71923
 USA

Telephone 800-643-1591

Fax: 870-246-6768

Email address ussds@icopal.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA: 800-424-9300

CHEMTREC INTERNATIONAL: +1 703-527-3887 (collect calls accepted)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

| | | |
|------------------------|-------------|------|
| Organic peroxides | Type F | H242 |
| Eye irritation | Category 2A | H319 |
| Skin sensitization | Category 1 | H317 |
| Acute aquatic toxicity | Category 1 | H400 |

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2.2. Label elements

Statutory basis

Classification according to Regulation 29CFR 1910.1200

Symbol(s)



Signal word

Warning

Hazard statement

H242 - Heating may cause a fire.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H400 - Very toxic to aquatic life.

Precautionary statement:
Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P220 - Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.
P234 - Keep only in original container.
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/spray.
P264 - Wash skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ eye protection/ face protection.

Precautionary statement:
Reaction

P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 - If eye irritation persists: Get medical advice/ attention.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.

Precautionary statement:
Storage

P410 - Protect from sunlight.
P411 - Store at temperatures not exceeding 38°C (100°F).
P235 - Keep cool.
P420 - Store away from other materials.

Precautionary statement:
Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other Hazards

None Known

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3. Composition/information on ingredients

| | | |
|--|-------------|-------------|
| • Dibenzoylperoxide | | 39% - 41% |
| CAS-No. | 94-36-0 | |
| Organic peroxides | | Type B |
| Eye irritation | | Category 2B |
| Skin Sensitization | | Category 1 |
| Acute aquatic toxicity | | Category 1 |
| • Benzoic acid, C9-11-branched alkyl esters | | 42% - 43% |
| CAS-No. | 131298-44-7 | |
| Eye irritation | | Category 2B |
| • Zinc stearate | | 1% - 2% |
| CAS-No. | 557-05-1 | |
| Acute aquatic toxicity | | Category 1 |

Other information

This material is classified as hazardous under OSHA regulations.

4. First aid measures

4.1. Description of first aid

measures Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Skin contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

Eye contact

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Ingestion

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed Symptoms

None known

4.3. Indication of any immediate medical attention and special treatment needed

None known.

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Dry Chemical combined with peroxide may reignite fire., Light water additives may be particularly effective at extinguishing peroxide fires.

Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Contact with incompatible materials or exposure to temperatures exceeding the SADT may result in a self-acceleration decomposition reaction with release of flammable vapors which may autoignite. Cool closed containers exposed to fire with water spray.

Vapors can travel to a source of ignition and flash back.

Do not allow run-off from firefighting to enter drains or water courses. Benzoyl peroxide will explode at temperatures above 392°F (200°C).

5.3. Advice for firefighters

If dry chemical is used to extinguish a peroxide fire, the extinguished area must be thoroughly wetted down with water to prevent reignition.

As in any fire, wear self-contained positive-pressure breathing apparatus and full protective gear.

Containers near the source of fire should be cooled with a water spray to prevent contents from reaching decomposition temperature.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Section 8 - Exposure Controls/Personal Protection.) Remove all sources of ignition. Ventilate the area.

6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up

Dike spill to prevent runoff from entering drains, sewers, streams, etc. Wet spilled material with water and absorb with an inert absorbent material such as perlite, vermiculite, or sand. Sweep up using non-sparking tools and place in a clean polyethylene drum or a polyethylene pail. DO NOT place into a steel container, lined or unlined, as decomposition may occur. Treat any contaminated cardboard packaging as hazardous waste. Wet container with additional water prior to sealing. Use absorbent/absorbent material to solidify liquids. Clean up promptly by sweeping or vacuum. Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions).

Additional advice

Never return spills in original containers for re-use.

Dispose of contaminated material as waste in accordance with section 13.

DO NOT ALLOW BENZOYL PEROXIDE TO DRY OUT; ADD WATER IF NECESSARY.

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7. Handling and storage

7.1. Precautions for safe handling

Rotate stock using the oldest material first. Avoid contact with skin, eyes and clothing. Use PPE as specified in section 8. Keep containers closed to prevent contamination. Keep away from sources of heat, sparks, or flame. Do not add to hot solvents or monomers as a violent decomposition and/or reaction may result. When using spray equipment, never spray raw peroxide onto curing or into raw resin or flues. Keep peroxide in its original container. **DO NOT USE NEAR FOOD OR DRINK.** Wash thoroughly after handling. Protect from contamination. Keep tightly sealed in original packing. Risk of decomposition. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities Storage

Heat or contamination may cause hazardous decomposition.
Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep container away from flammable and explosive substances.
Protect from heat and exposure to direct sunlight

Store in original container.

Transport and store container in upright position only.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

Do not grind or subject Benzoyl Peroxide to frictional heat or shock. Do not allow benzoyl peroxide to dry out, as the material will become shock and friction sensitive.

Consult NFPA 400 for storage area guidance. Storage and handling designs should be arranged in consultation with a person experienced in these types of assessments.

Further information

STORE BELOW 38 °C (100 °F).

Peroxide residues must not be returned into the original container, danger of decomposition!

Storage stability

5 - 30 °C

8. Exposure controls/personal protection

8.1. Control parameters

| • Dibenzoylperoxide | | |
|---------------------|----------------------------------|--|
| CAS-No. | 94-36-0 | |
| Control parameters | 5 mg/m ³ | Time Weighted Average (TWA):(ACGIH) |
| Control parameters | 5 mg/m ³ | Permissible exposure limit:(OSHA Z1) |
| Control parameters | 5 mg/m ³ | Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL) |
| Control parameters | 5 mg/m ³ | Time Weighted Average (TWA):(TN OEL) |
| • Zinc stearate | | |
| CAS-No. | 557-05-1 | |
| Control parameters | 5 mg/m ³ | Permissible exposure limit:(OSHA Z1) |
| type of exposure | Respirable fraction. | |
| Control parameters | 15 mg/m ³ Total dust. | Permissible exposure limit:(OSHA Z1) |
| type of exposure | | |

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| • Dibenzoylperoxide | | |
|--|---|--|
| Control parameters | 10 mg/m ³ | Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL) |
| Control parameters | 10 mg/m ³ | Time Weighted Average (TWA):(ACGIH) |
| Control parameters type of exposure | 5 mg/m ³ Respirable fraction. | Time Weighted Average (TWA):(TN OEL) |
| Control parameters type of exposure | 10 mg/m ³ Total dust. | Time Weighted Average (TWA):(TN OEL) |

8.2. Exposure controls

Engineering measures

Local exhaust and mechanical ventilation recommended.

Personal protective equipment

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Wear protective gloves made of the following materials:

Solvent-resistant gloves (butyl-rubber)

Nitrile rubber

Neoprene gloves

Skin should be washed after contact.

Eye protection

Use chemical splash goggles or face shield.

Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

Do not eat, drink or smoke during use.

Wash hands before breaks and immediately after handling the product.

Protective measures

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Physical state | solid |
| Color | white |
| Form | paste |
| Odor | slightly ester-like |
| Odor Threshold | not applicable |
| pH | not applicable |
| Melting point/range | not determined |
| Boiling point/range | Decomposes |
| Flash point | not applicable |
| Evaporation | not applicable |
| Flammability (solid, gas) | not applicable |
| Lower explosion limit | not applicable |
| Upper explosion limit | not applicable |
| Vapor pressure | not applicable |
| Relative vapor density | not applicable |
| Density | 1.2 g/cm ³ (25°C) |
| Water solubility | negligible |
| Partition coefficient: n- octanol/water | not applicable |

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Autoignition temperature not applicable

Thermal decomposition > 50 °C

Method: SADT (UN test H.4)

Rapid, exothermic reaction may occur above the Self Accelerated Decomposition Temperature (SADT).

SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. This reaction will generate flammable vapors which may autoignite.

Viscosity, dynamic not applicable

Viscosity, kinematic not applicable

9.2. Other information

peroxides The substance or mixture is an organic peroxide classified as type F.

10. Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Contact with incompatible substances can cause disintegration at or below SADT.

10.3. Possibility of hazardous reactions

Stability Stable under recommended storage conditions.

Possibility of hazardous reactions

10.4. Conditions to avoid

Vapors may form explosive mixtures with air.

Keep away from heat and sources of ignition.

Exposure to sunlight.

Prolonged storage above 100°F (38°). Storage above SADT. Storage near flammable or combustible material.

10.5. Incompatible materials

Keep away from strong acids, bases, heavy metals, salts, reducing agents and accelerators.

Contaminants (e.g. rust, dust, ash). Combustible materials., Risk of decomposition.

Dimethylaniline, cobalt naphthenate and other promoters, accelerators, reducing agents, or any hot material.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)., Irritant, caustic, flammable, noxious/toxic gases and vapors can develop in the case of fire and decomposition., Acrid smoke and irritating fumes.

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11. Toxicological information

11.1. Information on toxicological effects

| | |
|----------------------------|---|
| carcinogenicity assessment | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
|----------------------------|---|

**Toxicological information on
components Dibenzoylperoxide**

| | |
|---------------------------|---|
| Acute oral toxicity | LD50 Oral Rat: > 5000 mg/kg |
| Acute inhalation toxicity | LC50 Rat: 24.3 mg/l / 4 h Nominal concentration |
| Acute dermal toxicity | no data available |
| Skin irritation | no data available |
| Eye irritation | Irritation to eyes, reversing within 7 days |
| Sensitization | May cause sensitization by skin contact. |
| Repeated dose toxicity | Rat(male) NOEL: 500 mg/kg Rat(female) NOEL: 1000 mg/kg |
| Gentoxicity in vitro | Ames test negative |

Benzoic acid, C9-11-branched alkyl esters

| | |
|---------------------------|--|
| Acute oral toxicity | LD50 Oral Rat: > 5000 mg/kg |
| Acute inhalation toxicity | LC50 Rat: > 5.5 mg/l / 4 h / dust/mist |
| Acute dermal toxicity | LD50 Dermal Rat: > 2000 mg/kg |
| Skin irritation | No skin irritation |
| Eye irritation | Mild eye irritation |
| Sensitization | no data available |

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Zinc stearate

| | |
|---------------------------|--|
| Acute oral toxicity | LD50 Oral Rat: > 5000 mg/kg |
| Acute inhalation toxicity | LC50 Rat: 50 mg/l / 4 h |
| Acute dermal toxicity | LD50 Dermal Rat: > 2000 mg/kg |
| Skin irritation | No skin irritation |
| Eye irritation | No eye irritation |
| Sensitization | Did not cause sensitization on laboratory animals. |

12. Ecological information

12.1. Toxicity

| | |
|---|--|
| Toxicity to fish | LC50 flow-through test <i>Oryzias latipes</i> : 0.34 mg/l / 96 h Method: OECD TG 203 LC50 semi-static test <i>Poecilia reticulata</i> : 2.0 mg/l / 96 h Method: OECD TG 203 LC50 <i>Oncorhynchus mykiss</i> (rainbow trout): 0.0602 mg/l / 96 h Method: OECD method NOEC <i>Oncorhynchus mykiss</i> (rainbow trout): 0.0316 mg/l / 96 h Method: OECD method |
| Toxicity in aquatic invertebrates | |
| EC50 <i>Daphnia magna</i> : 2.91 mg/l / 48 h | |
| EC50 static test <i>Daphnia magna</i> : 0.07 mg/l / 48 h Method: OECD 202 part 1 | |
| EC50 <i>Daphnia magna</i> (Water flea): 0.0602 mg/l / 48 h | |
| | NOEC <i>Daphnia magna</i> (Water flea): 0.0316 mg/l / 48 h |
| Toxicity to algae | ErC50 <i>Pseudokirchneriella subcapitata</i> : 0.44 mg/l / 72 h EbC50 : 0.83 mg/l / 72 h EbC50 : 0.0422 mg/l / 72 h ErC50 : 0.0711 mg/l / 72 h NOEC : 0.02 mg/l / 72 h |
| Toxicity to bacteria | EC50 Respiration inhibition Activated sludge: 35 mg/l |

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12.2. Persistence and degradability

Biodegradability Closed Bottle Test, 301D
Result: Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility logKOC: 3.8 (Soil)
Test substance: Dibenzoylperoxide

12.5. Other adverse effects

Further Information The data is based on the pure substance.

13. Disposal considerations

13.1. Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method of disposal. Contact United Initiators for additional information. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

Product

RCRA Classification Ignitable D001.

RCRA Classification Reactive D003.

Uncleaned packaging

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

14. Transport information

D.O.T. Road/Rail

- | | |
|---|--|
| 14.1. UN number: | UN 3109 |
| 14.2. UN proper shipping name: | Organic peroxide type F, liquid(dibenzoyl peroxide, <=42%) |
| 14.3. Transport hazard class(es): | 5.2 |
| 14.4. Packing group: | II |
| 14.5. Environmental hazards (Marine pollutant): | Yes |
| 14.6. Special precautions for user: | No |

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Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 3109
14.2. UN proper shipping name: Organic peroxide type F, liquid (dibenzoyl peroxide, <=42%)
14.3. Transport hazard class(es): 5.2
14.4. Packing group: --
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: ERG-Code 5L
Must be protected from direct sunlight and stored away from all sources of heat in a well-ventilated area.
IATA-P: ERG-Code 5L
Must be protected from direct sunlight and stored away from all sources of heat in a well-ventilated area.

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 3109
14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID(dibenzoyl peroxide, <=42%)
14.3. Transport hazard class(es): 5.2
14.4. Packing group: --
14.5. Environmental hazards (Marine pollutant): Yes
14.6. Special precautions for user: Yes
14.7. EmS: F-J, S-R

"Separated from" acids and alkalis.
Protected from sources of heat.

- 14.8. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

15. Regulatory information

US Federal Regulations

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

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- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Reactivity Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Dibenzoylperoxide
CAS-No. 94-36-0
- Zinc stearate
CAS-No. 557-05-1

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

International Chemical Inventory Status

Unless otherwise noted, this product is in compliance with the inventory listing of the countries shown below. For information on listing for countries not shown, contact the Product Regulatory Services Department.

- | | |
|--------------------------|-------------------|
| • Europe (EINECS/ELINCS) | listed/registered |
| • USA (TSCA) | listed/registered |
| • Canada (DSL) | listed/registered |
| • Australia (AICS) | listed/registered |
| • Japan (MITI) | listed/registered |
| • Philippines (PICCS) | listed/registered |
| • China | listed/registered |
| • Korea | listed/registered |
| • New Zealand | listed/registered |

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An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

| | |
|-------------------|---|
| Health : | 1 |
| Flammability : | 2 |
| Physical Hazard : | 1 |

NFPA Ratings

| | |
|----------------|---|
| Health : | 1 |
| Flammability : | 2 |
| Reactivity : | 2 |

16. Other information

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Legend

| | |
|---------------|---|
| ACC | American Chemistry Council |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ACS | Advisory Committee on Sustainability |
| ADI | Acceptable Daily Intake |
| ASTM | American Society for Testing and Materials |
| ATP | Adaptation to Technical Progress |
| BCF | Bioconcentration factor |
| BOD | Biochemical oxygen demand |
| c.c. | closed cup |
| CAO | Cargo Aircraft Only |
| Carc | Carcinogen |
| CAS | Chemical Abstract Services |
| CDN | Canada |
| CEPA | Canadian Environmental Protection Act |
| CERCLA | Comprehensive Environmental Response – Compensation and Liability Act |
| CFR | Code of Federal Regulations |
| CMR | carcinogenic-mutagenic-toxic for reproduction |
| COD | Chemical oxygen demand |
| DIN | German Institute for Standardization |
| DMEL | Derived minimum effect level |
| DNEL | Derived no effect level |
| DOT | Department of Transportation |
| EC50 | half maximal effective concentration |

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| | |
|----------------|---|
| EPA | Environmental Protection Agency |
| ErC50 | Reduction of Growth Rate |
| ERG | Emergency Response Guide Book |
| FDA | Food and Drug Administration |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals (GHS) |
| GLP | Good Laboratory Practice |
| GMO | Genetic Modified Organism |
| HCS | Hazard Communication Standard |
| HMIS | Hazardous Materials Identification System |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IBC | Intermediate Bulk Container |
| ICAO-TI | International Civil Aviation Organization- Technical Instructions |
| ICCA | International Council of Chemical Association |
| ID | Identification number |
| IMDG | International Maritime Dangerous Goods |
| IUPAC | International Union of Pure and Applied Chemistry |
| ISO | International Organization For Standardization |
| LC50 | 50 % Lethal Concentration |
| LD50 | 50 % Lethal Dose |
| L(E)C50 | LC50 or EC50 |
| LOAEL | Lowest observed adverse effect level |
| LOEL | Lowest observed effect level |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NFPA | National Fire Protection Association |
| NOAEL | No observed adverse effect level |
| NOEC | no observed effect concentration |
| NOEL | no observed effect level |
| o. c. | open cup |
| OECD | Organization for Economic Cooperation and Development |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety and Health Administration |
| PBT | Persistent, bioaccumulative, toxic |
| PEC | Predicted effect concentration |
| PNEC | Predicted no effect concentration |
| RQ | Reportable Quantity |
| SDS | Safety Data Sheet |
| STOT | Specific Target Organ Toxicity |
| UN | United Nations |
| vPvB | very persistent, very bioaccumulative |
| voc | volatile organic compounds |
| WHMIS | Workplace Hazardous Materials Information System |
| WHO | World Health Organization |